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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

	Klaus POELLMANN, et al.	:	Attorney Docket: 2002DE408
Serial No.:	to be Assigned	:	
Filed:	September 2, 2004	:	
For:	Thermally Stable Polyalkylene Glycols as Lubricants for Refrigerators		

Transmittal Letter
Notification of Amendments Under PCT Article 34

Mail Stop:
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Preliminary to the examination of the above-identified application, an Amendment was filed under Article 34 of the Patent Cooperation Treaty prior to the International Preliminary Examination. Please note that the attached pages were filed with the European Patent Office. We enclose an English translation of the claims for your convenience.

Applicant respectfully requests submission of these pages before examination of the application and before entry of the Preliminary Amendment.

Respectfully submitted,

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What is claimed is:

1. The use of compounds of the formula 1

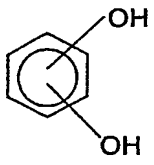
$$R^1\left[([CH_2]_k - O) - (A\text{-}O)_n - (B\text{-}O)_m - R^2\right]_q \qquad (1)$$

where

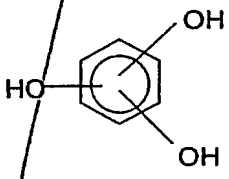
R^1	is an aromatic radical having from 6 to 18 carbon atoms
R^2	is hydrogen, C_1- to C_{18}-alkyl or C_6- to C_{18}-aryl
A	is an ethylene radical
B	is an isopropylene radical
k	is zero, 1 or 2
(n+m)	is a number from 3 to 20, where n is at least 1, and
q	is 2, 3 or 4,
	and where, when m and n are both greater than zero, the sequence of ethylene and propylene units is random

as a base oil for formulating lubricants.

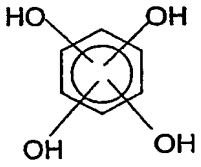
2. The use as claimed in claim 1, wherein R^1 may be compounds of the formulae



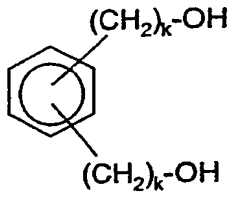
(3a)



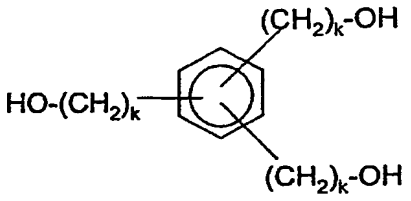
(3b)



(3c)



(4a)



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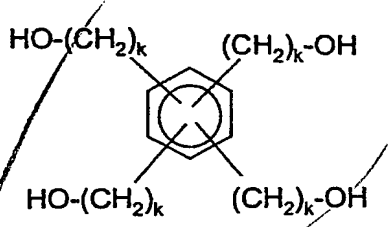
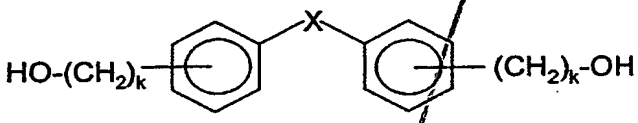


(4c)



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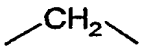
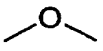


(6a)



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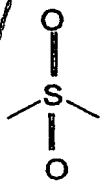

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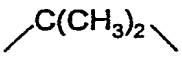
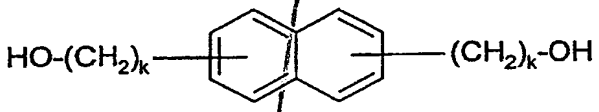


(6d)

or R^1 is a compound of the formula



(7)

in which each of the –OH or $-(CH_2)_k$-OH substituents may be at any position on the particular ring, and the substituents of the formula $-(CH_2)_k$-OH may occur once or twice on each of the aromatic rings.

3. The use as claimed in claim 1 and/or 2, wherein R^1 is derived from resorcinol (1,3-dihydroxybenzene) or pyrogallol (1,2,3-trihydroxybenzene).

4. The use as claimed in one or more of claims 1 to 3, wherein the sum (m+n) is from 2 to 9.

5. The use as claimed in one or more of claims 1 to 4, wherein R^2 is an alkyl radical having from 1 to 12 carbon atoms.

6. The use as claimed in one or more of claims 1 to 5, wherein m is zero.

7. The use as claimed in one or more of claims 1 to 6, wherein k is zero.

8. A compound of the formula I where R^2 is a C_1- to C_{18}-alkyl or C_6- to C_{18}-aryl group.

9. A refrigerant for refrigerating machines, heat pumps and related units, for instance air conditioning units, which contains between 80 and 100% by weight of a compound of the formula 1.